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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/513,704	02/25/2000	Tuomo Hokkanen	2132-25PCON	7280

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Lance J Lieberman Esq  
Cohen Pontani Lieberman & Pavane  
Suite 1210  
551 Fifth Avenue  
New York, NY 10176

EXAMINER
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NALVEN, ANDREW L

ART UNIT	PAPER NUMBER
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2134

DATE MAILED: 03/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/513,704	<b>Applicant(s)</b> HOKKANEN ET AL.	
	<b>Examiner</b> Andrew L Nalven	<b>Art Unit</b> 2134	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 14 September 2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1,3-6,8-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 15 is/are allowed.
- 6) ☒ Claim(s) 1,3-6,8-14 and 16-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

*TL*

### **DETAILED ACTION**

1. Claims 1-18 are pending.
2. The amendment submitted on 3/4/2005 has been received and entered.

### ***Response to Arguments***

3. Applicant's arguments filed 14 September 2004 have been fully considered but they are not persuasive.
4. Applicant has argued on page 9 that the Heinz reference fails to teach single-use passwords. Examiner agrees and has dropped the finality of the previous rejection and providing a new rejection below. Applicant's arguments with respect to this feature are moot in view of the new grounds of rejection.
5. Applicant has argued on page 9 that the Heinz reference fails to teach "selecting from the stored set of expendable passwords, automatically by the terminal device at user log-on to the service, one of the stored passwords for use in logging on to the service." Examiner notes that in the non-final rejection mailed 6/14/04, the Nielsen reference was relied upon to teach these limitations. Examiner maintains that the combination of Heinz and Nielson teaches the "selecting from the stored set of expendable passwords, automatically by the terminal device at user log-on to the service, one of the stored passwords for use in logging on to the service" (Nielsen, column 3 line 64 – column 4 line 8). Nielson teaches the client automatically selecting a

password and using it to log to a service (Nielson, column 4 lines 3-4, decrypting and forwarding the needed password).

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heinz US Patent No. 5,812,764 in view of Nielsen US Patent No 6,006,333 and Aziz US Patent No. 5,732,137. Heinz discloses a password management system over a communications network. Nielsen teaches a password helper for presenting appropriate client passwords to remote servers.

8. With regards to claims 1 and 6, Heinz discloses providing the user of a service with a set of single-use passwords for remotely accessing a service via a network (Heinz, column 4, lines 1-4 and column 6, lines 44-52, column 7 lines 10-13) and the storing of the provided passwords on the terminal device of the user (Heinz, column 4, lines 8-13). A connection is set up via the network from the terminal to the server to enable use of the service (Heinz, column 5, lines 34-46). Heinz further discloses the receiving of a setup signal and the validation of the password at the server for either

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allowing or denying access (Heinz, column 6, lines 1-12) and the registering of the selected password as used at the terminal device to thereby prevent unintended reuse of a used password (Heinz, column 6 line 66 – column 7 line 16). Heinz lacks a reference to single use passwords, the terminal automatically selecting from the stored set of expendable passwords, and transmitting the password as a portion of a connection setup signal. Nielsen discloses the selecting from the stored set of passwords, automatically by the terminal device at user log-on, one of the stored passwords for use in logging on to the service (Nielsen, column 3 line 64 – column 4 line 8). Aziz discloses authentication using single-use passwords (Aziz, column 6 lines 60-65). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Nielsen's method of using a terminal selected password as a portion of a setup signal and Aziz's one-time password system with Heinz's password management system because it offers the advantage of allowing authentication to a plurality of services without the user having to enter a password for each access to the plurality of remote servers (Nielsen, column 1, lines 31-55) and providing greater security against an unauthorized user gaining access to a password (Aziz, column 2 lines 1-15).

9. With regards to claims 2 and 7, Heinz as modified teaches the registering at the terminal of each stored password once it has been used to log-on (Heinz, column 6, lines 13-17).

10. With regards to claims 3 and 8, Heinz as modified teaches the updating of expendable passwords stored on the terminal device by transmitting a new set from the server to the terminal (Heinz, column 6, lines 44-48 and Figure 3).

11. With regards to claims 4 and 9, Heinz as modified teaches the automatic ordering of a new set of passwords by the terminal to the server when all of the passwords have been used (Heinz, column 6, lines 48-54).

12. With regards to claims 5 and 10-11, Heinz as modified teaches a database of passwords corresponding to different remote servers (Nielsen, column 3, lines 64-66) and a means for selecting one of the set of passwords corresponding to the service being accessed by the user for use in logging-in (Nielsen, column 4 line 57 – column 5 line 3).

13. Claims 12-14, and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heinz US Patent No. 5,812,764, Nielsen US Patent No 6,006,333, and Aziz US Patent No. 5,732,137 as applied to claim 6 above, and further in view of Sormunen et al US Patent No. 6,113,078.

14. With regards to claim 12, Heinz as modified fails to teach the use of a wired network using a telephone. Sormunen discloses a telecommunications network using a telephone (Sormunen, column 6, lines 58-67). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Sormunen's method of using a wired telecommunications network because it offers the advantage of

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being able to use email as a method of transmitting information (Sormunen, column 5, lines 63-67).

15. With regards to claims 13 and 14, Heinz as modified fails to teach the network being a mobile network using GSM. Sormunen discloses a mobile GSM network using GSM terminals (Sormunen, column 3, lines 12-31. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Sormunen's method of incorporating GSM terminals and networks because it offers the advantage of providing enciphered transmissions and fast data transfer (Sormunen, column 3, lines 36-41).

16. With regards to claims 16 and 17, Heinz as modified teaches a database of passwords corresponding to different remote servers (Nielsen, column 3, lines 64-66) and service identifiers and password names corresponding to the service being accessed by the user for use in logging-in (Nielsen, column 4 line 57 – column 5 line 3).

17. With regards to claim 18, Heinz as modified teaches the updating of expendable passwords stored on the terminal device by transmitting a new set from the server to the terminal at the request of the terminal (Heinz, column 6, lines 44-48 and Figure 3), but fails to teach the use of short message service to send a request for a password. Sormunen discloses the use of short message service for use in requesting a password (Sormunen, column 3, lines 54-60). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Sormunen's method of requesting a password with short message service messages because it offers the

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advantage of encrypting the messages and prevents outsiders from deciphering the request or the returned passwords (Sormunen, column 3, lines 65-67).

### ***Allowable Subject Matter***

18. Claim 15 is allowed.

### ***Conclusion***

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L Nalven whose telephone number is 571 272 3839. The examiner can normally be reached on Monday - Thursday 8-6, Alternate Fridays.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on 571 272 3838. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Nalven

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GREGORY MORSE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100